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R307. Environmental Quality, Air Quality.

R307-348. Magnet Wire Coatings.

R307-348-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from ovens of magnet wire coating operations.

R307-348-2. Applicability.

~~[(1)]~~ R307-348 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

~~[(2) In Box Elder and Tooele counties, R307-348 applies to the following sources:~~

~~— (a) Existing sources as of February 1, 2013, with the potential to emit 5 tons per year or more of VOC, including related cleaning activities; and~~

~~— (b) New sources as of February 1, 2013, that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.]~~

R307-348-3. Definitions.

The following additional definition applies to R307-348:

"Magnet wire coating" means the process of applying coating of electrical insulating varnish or enamel to aluminum or copper wire for use in electrical machinery.

R307-348-4. ~~[Emission Standards]~~ VOC Content Limit.

(1) No owner or operator of a magnet wire coating oven may cause, allow or permit discharge into the atmosphere of any VOC in excess of 0.20 kilograms per liter of coating (1.7 pounds per gallon), excluding water, and exempt solvents (compounds not classified as VOCs) delivered to the coating applicator from magnet wire coating operations.

(a) Equivalency calculations for coatings shall be performed in units of pounds VOCs per gallon of solid rather than pounds VOCs per gallon of coating when determining compliance.

(b) The equivalent emission limit is 2.2 pounds VOCs per gallon solids.

(2) The emission limitations specified above shall be achieved by:

(a) The application of low solvent content coating technology; or

(b) The use of an add-on control device on magnet wire coating ovens as specified in R307-348-6.

R307-348-5. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings and cleaning materials;

(c) Clean up spills immediately;

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(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) All sources subject to R307-348 shall maintain records demonstrating compliance with~~[all provisions of]~~ R307-348-4, and these records shall be available to the director upon request.

R307-348-6. ~~[Optional]~~Add-On Control[s] Systems Operations.

~~[(1) The owner or operator may install and maintain an incinerator provided that the emission control device will attain at least 90% efficiency performance.]~~

~~[(2) The owner or operator of a control device shall provide documentation that the emission control system will attain the requirements of R307-348-6.]~~

~~[(3) Emission control systems shall be operated and maintained in accordance with the manufacturer recommendations. The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.]~~

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-348-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-348-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source

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during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

~~[R307-348-7. Compliance Schedule.~~

~~_____ (1) All sources in Davis and Salt Lake counties are subject to this rule as of the effective date of this rule.~~

~~_____ (2) Sources in Box Elder, Cache, Utah, Tooele, and Weber counties shall be in compliance with this rule by January 1, 2014.]~~

KEY: air pollution, emission controls, surface coating, magnet wire
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